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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/698,978	10/27/2000	Jose C. Brustoloni	6-3	8298
22046	6 7590 06/25/2004		EXAMINER	
LUCENT TECHNOLOGIES INC. DOCKET ADMINISTRATOR 101 CRAWFORDS CORNER ROAD - ROOM 3J-219 HOLMDEL, NJ 07733			TRAN, ELLEN C	
			ART UNIT	PAPER NUMBER
			2134	
			DATE MAILED: 06/25/2004	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	,	Application No	. Appl	licant(s)			
Office Action Summary		09/698,978	BRU	STOLONI ET AL.			
		Examiner	Art U	Jnit			
		Ellen C Tran	2134				
Period fo	- The MAILING DATE of this communica r Reply	tion appears on the cove	r sheet with the corresp	pondence address			
A SHO THE N - Exten after: - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to treply within the set or extended period for reply will eply received by the Office later than three months after d patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, howation. ays, a reply within the statutory may period will apply and will expire by statute, cause the application	vever, may a reply be timely filed inimum of thirty (30) days will be a SIX (6) MONTHS from the mail to become ABANDONED (35 U	t considered timely. ling date of this communication. J.S.C. § 133).			
Status							
1) 又	Responsive to communication(s) filed	on 27 October 2000.					
,	This action is FINAL . 2b)⊠ This action is non-final.						
<i>,</i> —	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-40</u> is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-40</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from conside					
Applicati	on Papers						
,	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the) $igtimes$ accepted or b) $igsqcup$ olon to the drawing(s) be hel	d in abeyance. See 37 C	FR 1.85(a).			
11)	The oath or declaration is objected to b						
Priority u	inder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International see the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the certified copies of the certified copies of the certified copies of the priority do 3. Copies of the certified copies of the priority do 3. Copies of the certified copies of the priority do 3. Copies of the certified copies of the priority do 4. Copies of the certified copies of the priority do 5. Copies of the certified copies of the priority do 6. Copies of the certified copies of the priority do 6. Copies of the certified copies of the priority do 6. Copies of the certified copies of the priority do 7. Copies of the certified copies of the priority do 8. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certified copies of the priority do 9. Copies of the certi	cuments have been red cuments have been red the priority documents I I Bureau (PCT Rule 17	ceived. ceived in Application No nave been received in t 2(a)).	o			
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2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date 4.		5	·			

DETAILED ACTION

This action is responsive to communication: original application filed
 October 2000, with acknowledgement of continuing date 28 October 1999.

Claims 1-40 are currently pending in this application. Claims 1, 2, 3, 9, 15, 21, 27, 28,and 35 are independent claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language

4. Claims 1-5, 9-11, 15-17, 21-23, 27-31, 33, and 35-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Borella et al. U.S. Patent No. 6,697,354 (hereinafter '354).

As to independent claim 1, "A method comprising: performing, at a client, to outgoing packets" is taught in '354 col. 6, lines 3-8;

"having the client's private source IP address and generalized port number (GPN) and a protocol not directly supported by a network address translator (NAT) at which the client's private source IP address and GPN are translated to a NAT'S global source IP address and GPN, respectively, the functions of an

Application Layer Gateway (ALG) that need to be implemented in association with the NATS translations" is shown in '354 col. 3 line 64 through col. 4, line 15.

As to independent claim 2, "A method comprising: performing, at a client, to incoming packets" is disclosed in '354 col. 6, lines 3-8;

"sent to a network address translator's (NAT's) global destination IP address and generalized pod number (GPN) and having a protocol not directly suppoded by the NAT at which the NAT'S global destination IP address and GPN are translated to the client's private destination IP address and GPN, respectively, the functions of an Application Layer Gateway (ALG) that need to be implemented in association with the NAT'S translations" is taught in '354 col. 3 line 64 through col. 4, line 15.

As to independent claim 3, this claim incorporates the methods of claim 1 and 2 and is therefore rejected along the same rationale.

As to dependent claim 4, "wherein modifying the packets comprises modifying a TCP or UDP checksum in a packet's TCP or UDP header to account for the IP address and TCP or UDP source port number translations" is shown in '354 col. 10, lines 49-56.

As to dependent claim 5, "wherein modifying the checksum comprises adding to the TCP or UDP checksum the difference between the global and private source IP addresses, and the difference between global and private TCP or UDP source port numbers" is disclosed in '354 col. 13, line 1 through 38.

As to independent claim 9, this claim contains substantially similar subject matter as cited in claim 3 and is rejected along the same rationale.

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As to dependent claims 10 and 11 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claim 15, this claim is directed to the apparatus of method of claim 3 and is rejected along the same rationale.

As to dependent claims 16 and 17 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claim 21, this claim is directed to the apparatus of method of claim 9 and is rejected along the same rationale.

As to dependent claims 22 and 23 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claims 27 and 28, these claims are directed to the apparatus of method of claims 1 and 9 and are rejected along the same rationale.

As to independent claim 29, this claim is directed to a computer readable medium of method 3 and is rejected along the same rationale.

As to dependent claims 30 and 31 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to dependent claim 33, "wherein the method further comprises

processing any necessary Application Layer Protocol (ALG)" is taught in '354 col.

8, lines 14-20.

As to independent claim 35, this claim is directed to a computer readable medium of method 9 and is rejected along the same rationale.

As to dependent claims 36 and 37 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 6-8, 12-14, 18-20, 24-26, 32, 34, and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over '354 as applied to claims 1, 9, 15, 21, 29 and 35 in further view of Nessett et al., U.S. Patent No. 6,055,236 (hereinafter '236).

As to dependent claim 6, "and adding to a TCP or UDP checksum in a packet's TCP or UDP header, the difference between the global and private source IP addresses, and the difference between global and private TCP or UDP source port numbers" is taught in '354 col. 13, line 1 through 38 "Method 140 (FIG. 10) is illustrated with a specific example using TCP 58/IP 48 layer from layered protocol stack 42 ... however, other protocol layer in layered protocol stack 42, could also be used ... Table 3 illustrates an exemplary data packet with an outer IP 48 header added for router 26";

the following is not taught in '354:

"wherein the protocol is an authenticating and/or encrypting-decrypting AH or ESP IPSec security protocol in a tunnel or a transport mode, and modifying the packets comprises: before authentication and/or encryption, in the transport mode, replacing the client's source port number with a global port number, or in the tunnel mode, replacing an encapsulated client's source IP address and port number by the NAT'S global IP address and port number" however '236 teaches "The IPsec services can be applied in one of two modes, a "transport mode" or a "tunnel mode... As is known in the art, a virtual tunnel can be created by encapsulating a data packet inside another data packet. For example, an outer header is added before an inner header of data packet (e.g., Tables 3, 5, 8, and 11). Between the inner header and outer headers are any other header for a data path, or security" in col. 22, line 1 through col. 23, line 64.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify dynamic network translation taught in '236 to include a means to maintain establish secure internet sessions. One of ordinary skill in the art would have been motivated to perform such a modification to increase user flexibility and accommodate IP protocols IPv4 and IPv6 see '236 (col. 4, lines 59 et seq.) "Thus, it is desirable to allow an external network device to locate and/or communicate with services on internal network devices on a stub network using Distributed Network Address Translation ... using Internet Protocol security and other security protocol".

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As to dependent claim 7, "further comprising processing any necessary Application Layer Protocol (ALG)" is taught in '354 col. 8, lines 14-20 "Above transmission layer 56 is an application layer 62 ... more or fewer protocol layers can also be used in protocol stack 42".

As to dependent claim 8, "further comprising, for the AH protocol, computing each packet's authentication data as if the source IP address were equal to the NAT'S global IP address" is shown in '236 col. 21, lines 1-67 "There are a number of security measures that can be used with IP 48 ... IPsec typically defines two security services, each having an associated header that is added to an IP 48 packet data that it protects."

As to dependent claims 12-14, 18-20, 24-26, 32, 34, and 38-40 these claims contain substantially similar subject matter as cited in claims 5-8 above and are rejected along the same rationale.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen C Tran whose telephone number is (703) 305-8917. The examiner can normally be reached on 6:30 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A Morse can be reached on (703) 308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-5484.

NORMAN M. WRIGHT PRIMARY EXAMINER Page 8

Ellen Tran, Patent Examiner Technology Center 2134 10 June 2004